

**KENTUCKY
HYBRID CORN
PERFORMANCE
TEST — 1974**

C. G. PONELETT and K. O. EVANS

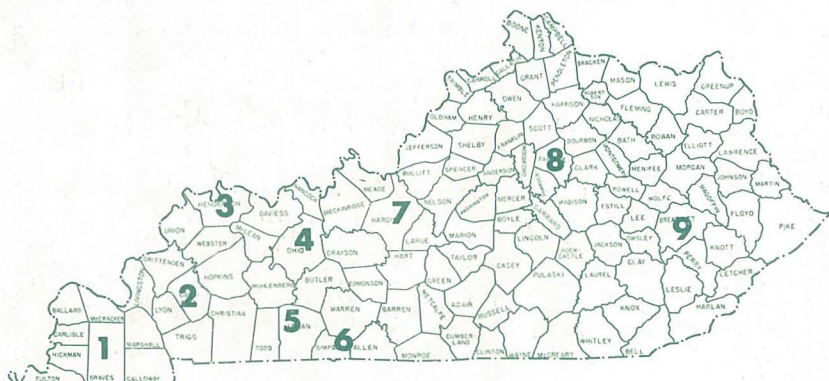
PROGRESS REPORT 233

UNIVERSITY OF KENTUCKY
COLLEGE OF AGRICULTURE
Agricultural Experiment Station
Department of Agronomy
Lexington

16M-12-74

1975
LOCATIONS OF THE ~~1974~~

KENTUCKY HYBRID CORN PERFORMANCE TEST



(Locations identified in Table 3.)

ACKNOWLEDGMENTS

The authors are grateful to Mr. John Byars and Dr. Paul Cornelius, Department of Agronomy, for their assistance in summarizing the results presented in this progress report. Also acknowledgments are made to the following persons who aided in the conduct of this year's performance test:

- Dr. Morris Bitzer, Extension Specialist in Grain Crops, Lexington.
- Dr. James Herbek, Extension Specialist in Grain Crops, West Kentucky Substation, Princeton.
- Charles Tutt, Research Specialist, West Kentucky Substation, Princeton.
- Donnie Davis ~~Harvey Mitchell~~, Superintendent, West Kentucky Substation, Princeton.
- George A. Armstrong, Superintendent, Robinson Substation, Quicksand.
- C. E. Wyatt, Area Extension Specialist, Mayfield.
- John Kavanaugh, Area Extension Agent, Hartford.
- William Hendrick, Extension Agent, Henderson.
- Don Kessler, Extension Agent, Franklin.
- Jack Snyder, Extension Agent, Elizabethtown.
- Aubrey Warren, Extension Agent, Russellville

TABLE 22.—THREE-YEAR SUMMARY (1972-74), VIRUS TEST, RUSSELLVILLE, KY.

HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
KENTUCKY 105	3.9	54.9	22.9	79.0	20.0
MCNAIR X300	3.6	85.2	23.6	83.9	26.0
SO. STATES SS866	3.1	65.0	22.2	73.8	18.8
T-E VR-20-Y	2.9	66.7	22.4	78.6	7.6
STULL'S SP2825	2.8	83.3	24.2	83.9	18.5
PIONEER BRAND 3147	1.8	94.1	24.2	71.7	4.1
PIONEER BRAND 3179	1.7	97.8	22.6	82.8	15.8
P-A-G SX 17A	1.3	98.0	22.0	86.1	10.0
YELLOW AVERAGE	2.6	80.6	23.0	80.0	15.1
WHITE					
KENTUCKY 5921W	4.4	55.3	22.9	80.7	14.6
WHITE AVERAGE	4.4	55.3	22.9	80.7	14.6
GRAND AVERAGE	2.8	77.8	23.0	80.1	15.0

TABLE 21.—TWO-YEAR SUMMARY (1973-74), VIRUS TEST, RUSSELLVILLE, KY.

HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW					
BO-JAC 8371	3.1	74.0	21.3	87.5	11.3
SO.STATES 55866	2.8	52.6	22.6	73.2	14.7
T-E VR-20-Y	2.8	54.3	23.0	83.1	4.0
BO-JAC X83	2.8	86.8	20.9	86.5	7.5
ASGROW RX 115	2.7	74.3	22.1	88.3	3.6
ZIMMERMAN Z24Y	2.7	85.0	21.7	89.8	2.3
HULTING X770	2.5	70.8	19.1	74.5	15.1
STULL'S SP2825	2.5	74.5	25.6	79.9	6.1
KENTUCKY 105	2.3	65.7	24.0	86.7	3.0
HULTING X8775	2.3	62.1	19.1	84.6	5.0
COKER 56	2.3	65.7	26.6	75.0	8.5
TROJAN X 3524	2.3	81.2	22.1	88.0	4.8
BO-JAC X7L	2.3	78.2	22.6	88.5	4.5
MCNAIR X300	2.2	96.5	24.1	87.8	1.4
PIONEER BRAND 3179	1.8	86.7	22.9	79.9	3.9
FUNK'S G4762	1.8	86.2	25.1	83.6	4.6
TROJAN X 2722	1.8	81.9	26.1	82.6	6.5
HOLDENS 1028	1.7	82.8	23.6	84.4	5.4
PIONEER BRAND 3147	1.3	97.1	25.5	77.9	2.3
P-A-G SX 17A	1.3	87.1	22.3	87.0	2.1
VORIS SEEDS V2632	1.3	86.9	20.0	88.5	2.9
YELLOW AVERAGE	2.2	77.6	22.9	83.7	5.7
WHITE					
KENTUCKY 5921W	3.1	58.4	24.1	79.9	3.5
ZIMMERMAN Z11W	1.7	69.9	26.4	74.2	1.2
WHITE AVERAGE	2.4	64.2	25.2	77.1	2.3
GRAND AVERAGE	2.2	76.5	23.1	83.1	5.4

LIST OF TABLES

	Page
Table 1.—Pedigrees of Experiment Station Hybrids Tested in 19745	8
Table 2.—Hybrids Tested in 19745	9
Table 3.—Agronomic Information Pertaining to 1974 Test Locations	13
Table 4.—Annual Summary, Normal Population, Mayfield, Ky.	14
Table 5.—Annual Summary, Normal Population, Princeton, Ky.	15
Table 6.—Annual Summary, Normal Population, Henderson, Ky.	16
Table 7.—Annual Summary, Normal Population, Hartford, Ky.	17
Table 8.—Annual Summary, Normal Population, No-till, Franklin, Ky.	18
Table 9.—Annual Summary, Normal Population, No-till, Elizabethtown, Ky.	19
Table 10.—Annual Summary, Normal Population, Lexington, Ky.	20
Table 11.—Annual Summary, Normal Population, Quicksand, Ky.	21
Table 12.—Annual Summary, Normal Population, All Non-Virus Locations, 19745	22
Table 13.—Two-year Summary, Normal Population, All Non-Virus Locations, 1973 and 19745	23
Table 14.—Three-year Summary, Normal Population, All Non-Virus Locations, 1973, 1974, and 19745	24
Table 15.—Annual Summary, High Population, Princeton, Ky.	25
Table 16.—Annual Summary, High Population, Lexington, Ky.	26
Table 17.—Annual Summary, High Population, Princeton and Lexington, Ky., 19745	27
Table 18.—Two-year Summary, High Population, Princeton and Lexington, Ky., 1973 and 19745	28
Table 19.—Three-year Summary, High Population, Princeton and Lexington, Ky., 1973, 1974, and 19745	28
Table 20.—Corn Virus Test, Normal Population, Russellville, Ky., 1974.	29
Table 21.—Two-year Summary, Corn Virus Test, Normal Population, 1973 and 1974	30
Table 22.—Three-year Summary, Corn Virus Test, Normal Population, 1972, 1973, and 1974	31

The 1975 virus test at Russellville, Ky. was severely damaged by drought. We judged the results to be of no value for the intended purpose. Therefore to provide the best information we have available, the results from ~~1974~~ 1974 are reported.

TABLE 20.—ANNUAL SUMMARY (1974), VIRUS TEST, RUSSELLVILLE, KY.

HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	HYBRID	VIRUS RATING	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW						YELLOW					
STULL'S SX2700	6.0	78.2	23.8	80.2	11.2	FUNK'S G4810	2.0	105.2	26.5	90.6	1.8
BO-JAC 8371	4.7	90.1	22.4	87.5	19.0	PIONEER BRAND 3179	1.7	112.7	24.3	82.8	5.7
HOLDENS 1048	4.3	93.2	22.7	80.2	8.0	FUNK'S G4762	1.7	98.5	28.0	75.5	1.7
BO-JAC X83	3.7	98.6	23.1	84.9	9.2	FUNK'S EXP 25601	1.7	105.7	20.9	89.6	1.2
ZIMMERMAN Z24Y	3.7	100.9	22.9	94.3	3.4	HULTING EXP 73649	1.7	86.6	23.4	87.0	9.2
MCNAIR 73002	3.7	104.6	26.5	92.2	12.3	NORTHROP-KING PX91	1.7	131.6	24.1	89.6	1.8
PRINCETON 865	3.7	102.8	24.1	90.6	14.4	NORTHROP-KING PX737	1.7	112.5	26.8	91.1	2.9
GOLDEN HARVEST H2750	3.3	99.6	26.8	84.9	6.7	TROJAN X 142	1.7	96.1	23.4	92.7	2.2
HOLDENS 1026	3.3	112.2	30.9	84.9	1.3	TROJAN X 2722	1.3	108.1	26.8	80.2	7.2
HULTING X8775	3.0	79.6	20.9	84.9	6.4	VORIS SEEDS V2632	1.3	106.8	22.9	83.9	3.0
BO-JAC X7L	3.0	105.3	23.1	85.4	5.0	PIONEER BRAND 3145	1.3	118.0	26.6	90.6	2.8
PRINCETON MD 885	3.0	88.1	23.7	81.3	8.8	PIONEER BRAND 3147	1.0	140.2	26.7	71.9	0.0
SD STATES SS866	2.7	68.4	24.4	75.5	13.7	P-A-G SX 17A	1.0	128.0	23.5	87.0	4.1
ASGROW RX 115	2.7	103.2	23.5	89.6	2.9	FUNK'S EXP 26550	1.0	77.9	24.6	90.1	2.3
HULTING X770	2.7	82.8	21.4	66.1	10.2	MASON 9997	1.0	101.1	26.8	82.8	5.0
MCNAIR X300	2.7	122.4	26.4	84.4	1.2	MIGRO M-600	1.0	124.2	22.8	81.3	6.3
GOLDEN HARVEST H2626	2.7	103.7	24.0	86.5	3.4						
SUPER CROST 70DR	2.7	85.3	19.9	89.6	4.8	YELLOW AVERAGE	2.4	101.1	24.8	85.0	5.9
T-E VR-20-Y	2.3	71.4	23.6	83.3	6.9	WHITE					
MCNAIR S338	2.3	115.3	25.5	90.6	3.9	ASGROW RX 123W	3.3	74.5	27.9	72.9	4.4
TROJAN X 3524	2.3	97.2	24.8	90.6	1.1	KENTUCKY 5921W	2.7	93.0	24.3	78.1	5.6
KENTUCKY 105	2.0	96.6	25.2	92.2	4.5	ASGROW RX 125W	2.0	96.1	26.7	82.8	7.6
STULL'S SP2825	2.0	103.9	26.4	84.4	12.3	ZIMMERMAN Z11W	1.3	98.1	27.5	92.7	2.3
COKER 56	2.0	80.9	29.8	72.9	10.8	ZIMMERMAN Z52W	1.3	118.0	26.7	86.5	4.2
HOLDENS 1028	2.0	107.8	28.7	86.5	3.2	PRINCETON SX 910	1.0	112.2	26.5	94.3	1.7
DEKALB XL72B	2.0	108.2	24.7	81.3	4.6						
GOLDEN HARVEST H2831	2.0	92.2	27.7	85.4	8.3	WHITE AVERAGE	1.9	98.7	26.6	84.5	4.3
						GRAND AVERAGE	2.3	100.8	25.0	85.0	5.7

TABLE 18.—TWO-YEAR SUMMARY (1973-74), HIGH POPULATION, PRINCETON AND LEXINGTON, KY.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
BO-JAC X7L	151.3	23.0	88.9	15.2
NORTHROP-KING PX76	149.6	20.6	85.7	13.7
MIGRO M-6666	146.9	21.0	85.1	18.5
TROJAN TXS 113	145.6	20.5	86.3	13.0
BO-JAC X62	145.3	20.2	88.0	14.4
MIGRO M-7072	144.1	21.2	84.5	24.0
MIGRO M-7070	142.5	22.7	80.9	21.9
MCNAIR X190	142.3	22.6	86.8	18.7
NORTHROP-KING PX74	141.7	20.7	83.6	8.3
VORIS SEEDS V2562	141.5	20.8	81.3	19.4
PIONEER BRAND 3571	138.1	18.8	85.8	8.3
VORIS SEEDS V2502	137.8	19.5	87.4	11.0
MUNCY CHIEF SX662	136.8	21.0	85.7	15.3
FUNK'S G4646	136.6	22.2	84.0	14.7
HULTING X770	135.0	19.1	85.1	23.6
PIONEER BRAND 3535	134.5	18.8	85.3	14.1
KENTUCKY 105	131.3	23.7	87.0	30.4
SO.STATES SS750	129.6	21.1	90.7	18.4
HULTING X9880	129.2	23.2	85.3	21.7
MIGRO M-5045	128.0	19.9	80.3	7.4
MUNCY CHIEF H764	117.8	21.1	78.2	24.4
YELLOW AVERAGE	138.4	21.0	85.1	17.0
WHITE				
MCNAIR X233	134.3	26.2	76.6	14.3
WHITE AVERAGE	134.3	26.2	76.6	14.3
GRAND AVERAGE	138.2	21.3	84.7	16.8

TABLE 19.—THREE-YEAR SUMMARY (1972-74), HIGH POPULATION, PRINCETON AND LEXINGTON, KY.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
TROJAN TXS 113	145.7	19.8	87.7	13.8
MIGRO M-7072	144.9	20.2	86.6	23.2
FUNK'S G4646	136.8	21.1	85.0	14.7
PIONEER BRAND 3571	135.6	19.0	86.1	8.9
MUNCY CHIEF SX662	133.9	20.5	87.9	15.9
HULTING X770	133.9	19.0	86.2	26.0
MIGRO M-5045	132.5	19.2	81.7	12.4
YELLOW AVERAGE	137.6	19.8	85.9	16.4

Kentucky Hybrid Corn Performance Test 1974⁵

By C. G. Poneleit and K. O. Evans

The objective of the Kentucky Hybrid Corn Performance Test is to provide unbiased performance estimates of hybrid seed corn sold in Kentucky. Every effort has been made to conduct the test in an unbiased manner according to accepted agronomic practices.

PRESENTATION OF DATA

Complete 197⁵ data are presented for each location where a test was conducted. Two-year and three-year yield averages are included in each of the single location tables. Readers are encouraged to consider these multiple-year averages and the averages over locations (Tables 11, 12, and 13) since these are better estimates of a hybrid's relative yield ability than data gathered at one location in one year.

Comparisons between yields or other characters of any two or more hybrids should be made only with data from one table at a time. The testing procedures do not provide a suitable comparison between a hybrid grown at one location and population with another hybrid grown at a different location and population.

TESTING PROCEDURE

SELECTION OF HYBRIDS

The hybrids chosen for testing are those most likely to be available for sale in 1976.
~~Ky 105 and Ky 5021W (Table 1) were again included as check varieties to compare performance over years.~~ Seed of each commercial hybrid (Table 1) was obtained from dealer stocks in Kentucky whenever possible.

*This 1975 was test at Versailles, Ky. corn
 already damaged by drought. Therefore 1972-74 data are presented.*

Those hybrids grown in the corn virus test and high population tests are indicated in column 2 of Table 1. The hybrid corn companies were asked to nominate those hybrids known to have virus resistance for inclusion in the virus test. Hybrids grown in the high population tests were also suggested by the parent company; thus, not all hybrids will appear in the virus or high-population test results.

LOCATION OF TESTS

The map on page 2 shows the location for each test. The Lexington and Princeton locations had both normal and high population tests, while all other locations had only the normal population. The Russellville site was specifically chosen for the presence of corn virus.

Planting of the Princeton tests was delayed because of a Johnsongrass control program and subsequently were heavily lodged from southwestern corn borer infestation. The yields (Tables 4 and 24) were influenced by the late planting as well as the extreme lodging which resulted in harvest losses.

CULTURAL PRACTICES

The seedbed at each location except Elizabethtown and Franklin was prepared by conventional tillage methods. Fertilizer was applied as indicated by soil tests. The test at Elizabethtown was planted in an orchardgrass sod and at Franklin in a fescue sod, using recommended no-tillage practices. The test areas were treated with herbicide and supplemented by post-emergence cultivation when necessary. Table 2 shows the specific treatment for each location.

EXPERIMENTAL DESIGN

Uncontrollable variability of soil types, fertility, and other factors was sampled by using three replications of a ~~balanced~~ lattice design. A ~~separate randomization was used for each location.~~ Yields presented in Tables 4 through 22 are adjusted for block and replication differences when shown applicable by statistical analyses.

Furadan was applied in the row at planting.

TABLE 17.—ANNUAL SUMMARY (1974), HIGH POPULATION, PRINCETON AND LEXINGTON, KY

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL LODGE	HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL LODGE
YELLOW					MCNAIR X194	133.6	22.9	83.5	10.7
TROJAN TXS 114	159.0	25.0	87.9	12.6	SUPER CROST 7772	133.6	23.5	87.5	12.5
DEKALB XL78	153.9	25.4	89.4	12.4	STEWART SX 71K	133.0	22.6	88.3	14.0
BO-JAC X7L	151.5	25.2	91.1	15.2	DEKALB XL72B	132.7	23.6	86.0	10.1
NORTHUP-KING PX76	150.2	23.2	86.6	9.5	HULTING X980	132.0	24.8	83.5	19.3
MIGRO M-6666	146.5	22.9	84.1	7.7	DEKALB XL68	131.7	22.7	88.4	22.2
GUTWEIN 66	145.0	23.7	86.4	14.9	MIGRO M-7070	131.3	25.0	76.3	13.2
SUPER CROST 567	144.7	23.1	93.4	9.5	FUNK'S G4737	130.4	24.9	84.3	17.3
S. S. HYBRIDS JX-7101	144.6	22.5	88.3	11.2	PIONEER BRAND 3161	130.3	24.6	82.2	10.7
TROJAN TXS 115A	144.2	22.5	85.2	9.4	NORTHUP-KING PX77	129.9	22.2	84.5	8.4
S. S. HYBRIDS JX-86	143.6	23.4	86.2	14.9	FUNK'S G4646	126.3	24.0	83.3	12.8
BO-JAC X62	141.9	23.0	84.1	17.5	HULTING X770	125.2	21.9	86.7	23.8
MIGRO M-7072	141.4	25.2	89.2	8.3	SEED KEM SKX-66	125.2	21.8	81.6	9.3
BO-JAC X7L-10	141.1	25.2	85.0	11.9	HULTING X9880	121.2	25.3	85.0	20.5
S. S. STATES SS775	140.1	23.3	90.7	6.7	STEWART SX 58	119.4	24.2	84.3	21.3
GUTWEIN 65A	139.8	22.9	89.2	15.6	MUNCY CHIEF HT64	118.6	22.6	87.3	21.0
COKER 16	139.7	23.1	88.1	10.8	NORTHUP-KING PX74	116.4	23.2	82.4	9.6
PIONEER BRAND 3571	139.4	20.5	86.2	10.0	MIGRO M-5045	113.1	22.2	79.4	8.1
KENTUCKY 105	139.2	26.0	90.5	27.0	HULTING X9861	106.2	21.4	85.0	24.9
NORTHUP-KING PX79	139.1	23.2	84.3	13.4	YELLOW AVERAGE	134.9	23.3	86.3	13.6
MCNAIR X170	137.5	22.1	88.4	10.3	WHITE				
VORIS SEEDS V2502	137.3	21.4	90.3	7.1	MCNAIR X233	129.6	29.1	92.6	15.9
MCNAIR X190	137.3	24.5	90.3	16.0	WHITE AVERAGE	129.6	29.1	92.6	15.9
TROJAN TXS 113	136.5	22.5	88.1	9.7	GRAND AVERAGE	134.7	23.5	86.5	13.7
VORIS SEEDS V2562	135.7	23.2	83.1	11.0					
MUNCY CHIEF SX662	135.6	23.1	87.1	16.9					
SUPER CROST 585	134.4	24.4	88.8	10.8					
PIONEER BRAND 3535	133.8	20.7	85.0	15.3					

TABLE 16.—ANNUAL SUMMARY (1974), HIGH POPULATION, LEXINGTON, KY.

HYBRID	3-YR			1974 RESULTS			1974 RESULTS			1974 RESULTS		
	YIELD BU/AC	2-YR YIELD BU/AC	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	AVG % MOIST	AVG % STAND	TOTAL % LODGED	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW												
NORTHROP-KING PX76	185.5	198.5	198.5	24.9	95.5	2.4	24.9	95.5	2.4	24.7	95.5	7.4
TROJAN TXS 114	175.7	195.3	195.3	26.8	94.3	1.2	26.8	94.3	1.2	26.9	89.6	7.0
MICRO M-6666	175.5	187.7	187.7	26.8	93.6	6.4	26.8	93.6	6.4	26.8	86.6	4.2
BO-JAC 871	175.5	185.9	185.9	26.6	97.3	14.8	26.6	97.3	14.8	22.8	91.3	2.8
GUTMEIN 64	159.7	184.9	184.9	26.4	93.2	9.4	26.4	93.2	9.4	25.8	87.1	5.8
KENTUCKY 105		183.8	183.8	30.0	93.2	15.3	30.0	93.2	15.3	25.4	94.3	8.1
SUPER CROST 567		181.0	181.0	24.5	97.0	3.9	24.5	97.0	3.9	25.8	85.2	18.1
GUTMEIN 65A		178.8	178.8	24.0	96.2	11.0	24.0	96.2	11.0	24.9	90.6	2.2
S 5 HYBRIDS JX-7101		178.6	178.6	24.9	93.2	3.7	24.9	93.2	3.7	27.1	90.2	15.3
DEKALB XL78		176.8	176.8	27.2	92.4	2.9	27.2	92.4	2.9	26.2	83.5	0.5
MCNAIR X190		174.6	174.6	25.9	95.8	8.6	25.9	95.8	8.6	26.2	93.9	10.9
MICRO M-7072	164.3	160.9	160.9	25.4	85.6	3.4	25.4	85.6	3.4	24.0	93.2	15.9
BO-JAC 871-10		172.6	172.6	27.1	93.9	6.4	27.1	93.9	6.4	25.9	93.2	7.3
TROJAN TXS 115A		172.4	172.4	24.4	90.2	2.1	24.4	90.2	2.1	149.5	25.5	17.3
MCNAIR X170		172.2	172.2	23.8	97.0	5.4	23.8	97.0	5.4	143.6	25.5	7.0
BO-JAC 862	168.8	172.1	172.1	24.7	93.9	1.2	24.7	93.9	1.2	147.1	24.7	6.7
CONER 16-7070		171.8	171.8	25.3	97.7	3.5	25.3	97.7	3.5	149.9	23.8	3.6
MICRO M-7070		170.5	170.5	26.9	82.6	7.3	26.9	82.6	7.3	158.3	25.5	2.6
S 5 HYBRIDS 39-86		170.4	170.4	26.1	93.6	8.9	26.1	93.6	8.9	128.9	23.0	16.1
SUPER CROST 585		169.2	169.2	25.9	94.3	7.3	25.9	94.3	7.3	157.4	25.2	6.9
NORTHROP-KING PX77		168.1	168.1	24.8	91.7	6.5	24.8	91.7	6.5	163.0	25.2	6.9
TROJAN TXS 113	169.6	177.2	177.2	24.8	94.3	2.0	24.8	94.3	2.0	165.0	32.9	7.6
VORIS SEEDS V2502		159.8	167.4	23.4	94.3	9.9	23.4	94.3	9.9	165.0	32.9	7.6
NORTHROP-KING PX79		167.4	167.4	26.0	92.0	4.2	26.0	92.0	4.2	165.3	25.4	6.9
VORIS SEEDS V2562		166.0	166.0	24.3	86.4	1.7	24.3	86.4	1.7	165.3	25.4	6.9
PIONEER BRAND 3571	152.5	170.9	170.9	21.9	89.4	13.1	21.9	89.4	13.1	165.3	25.4	6.9
MUNCI CHIEF SX662	156.4	164.7	164.7	24.0	93.9	7.8	24.0	93.9	7.8	165.3	25.4	6.9
STEWART SX 71R	164.2	164.2	164.2	24.3	94.3	7.8	24.3	94.3	7.8	165.3	25.4	6.9
WHITE												
MCNAIR X233		165.0	165.0	32.9	99.6	7.6	32.9	99.6	7.6	165.0	32.9	7.6
WHITE AVERAGE		165.0	165.0	32.9	99.6	7.6	32.9	99.6	7.6	165.0	32.9	7.6
GRAND AVERAGE		157.4	162.9	25.4	92.3	6.9	25.4	92.3	6.9	157.4	25.4	6.9
YELLOW AVERAGE		157.4	163.0	25.2	92.2	6.9	25.2	92.2	6.9	157.4	25.2	6.9

PLANTING

All plots were planted with a two-row no-till corn planter modified for small plot work. The planter boxes were replaced by special planting cones which allowed planting of a specified number of kernels per plot. Each plot consisted of two rows 38 inches apart. Population was varied by planting different numbers of kernels per row. A normal population test had 20,000 kernels planted per acre, while the high population test had 26,000 kernels planted per acre.

HARVESTING

All plots were harvested with a tractor-mounted one-row picker-sheller. Both rows of each two-row plot were picked, shelled, and the grain collected in a metal container. The grain weight and moisture content of each plot were then measured with a portable scale and moisture meter. Later, acre yields were calculated and adjusted to No. 2 corn at 15.5% moisture. Dropped ears were not gleaned from the plots. The number of plants remaining in each plot at harvest and the number of lodged plants were recorded immediately prior to harvest.

CORN VIRUS

Two corn virus diseases occur in Kentucky;
~~In addition to maize dwarf mosaic virus (MDM), a second and~~
~~virus~~ maize chlorotic dwarf virus (MCD), has been found in ~~Kentucky~~
~~corn fields. Both the new virus and maize dwarf mosaic~~
~~virus~~ overwinter in Johnsongrass, and both are probably present in
most areas where maize dwarf mosaic virus had previously been
determined as the major disease. For this reason, the Russellville,
Ky., test (Tables 19-21) will be referred to as the "corn virus test"
with the understanding that resistance to both maize dwarf mosaic
and the newly discovered maize chlorotic dwarf virus is being
evaluated.

The data shown in Tables 19-21 are from the years 1972-1974 since the 1975 data were considered unusable.

The virus rating shown in the first column of Tables 19-21 is a visual rating of virus infestation. A 1 rating means heavy infection, while a 7 rating means no visible symptoms.

TABLE 1.—PEDIGREES OF EXPERIMENT STATION HYBRIDS TESTED IN 1974.

Hybrid	Color	Cross	Pedigree
Ky 105	Yellow	4X	(T8 x C121E) (38-11 x Oh 7B)
Ky 5921W	White	4X	(C164 x 33-16) (Ky 201 x C166)

TABLE 15.—ANNUAL SUMMARY (1974), HIGH POPULATION, PRINCETON, KY.

HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS				HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS					
			YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED				YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED		
YELLOW															
DEKALB XL78			131.1	23.6	86.4	22.0	YELLOW								
SO.STATES SS775			124.9	21.8	90.5	10.5	STEWART SX 71K			101.8	20.9	82.2	20.3		
TROJAN TXS 114			122.6	23.1	81.4	23.9	GUTWEIN 65A			100.8	21.8	82.2	20.1		
S S HYBRIDS JX-86			117.9	20.9	78.0	20.8	NORTHROP-KING PX74	125.0		99.6	20.9	71.6	16.9		
BO-JAC X7L		127.1	117.1	23.7	84.8	15.5	DEKALB XL68			99.3	20.7	81.4	36.9		
TROJAN TXS 115A			116.0	20.7	80.3	16.7	HULTING X770	111.1	106.2	98.9	19.7	80.3	31.7		
DEKALB XL72B			115.8	21.3	78.8	12.9	MCNAIR X190		123.8	98.4	23.1	84.8	25.2		
PIONEER BRAND 3571	118.6	117.6	113.9	19.1	83.0	18.4	SUPER CROST S85			98.3	22.7	84.1	14.4		
MIGRO M-7072	125.6	120.2	111.1	21.8	82.6	31.4	SEED KEM SKX-66			98.0	20.0	79.9	18.2		
NORTHROP-KING PX79			110.8	20.4	76.5	17.3	PIONEER BRAND 3161			97.1	22.2	74.6	14.3		
BO-JAC X62		121.8	110.7	21.2	84.5	15.5	HULTING X9880	108.2		95.8	23.6	78.8	23.7		
S S HYBRIDS JX-7101			110.5	20.1	83.3	18.6	FUNK'S G4646	118.0		113.0	24.8	22.2	79.5	19.7	
SUPER CROST 7772			109.8	21.5	80.3	17.0	KENTUCKY 105			103.0	24.5	22.1	87.9	38.6	
BO-JAC X7L-10			109.6	23.4	76.1	17.4	MUNCY CHIEF H764			103.9	23.5	19.8	79.2	35.0	
SUPER CROST S67			108.5	21.7	89.8	15.2	MIGRO M-7070			108.2	22.1	23.1	70.1	25.1	
COKER 16			107.6	21.0	78.4	18.1	NORTHROP-KING PX77	117.9	106.2	91.2	20.1	77.3	10.3		
HULTING X980			107.5	23.9	81.8	20.3	MIGRO M-5045		105.9	90.7	20.6	76.1	12.5		
VORIS SEEDS V2502		115.9	106.8	19.5	86.4	12.3	SO.STATES SS750			90.6	21.8	86.4	23.6		
PIONEER BRAND 3535			117.1	106.6	18.6	78.8	STEWART SX 58			86.9	22.1	74.6	31.8		
MUNCY CHIEF SX662	111.5		108.2	22.3	80.3	20.8	HULTING X9861			83.4	19.8	79.2	33.6		
FUNK'S G4737			105.5	22.7	78.4	19.2	YELLOW AVERAGE	117.8	113.8	104.4	21.4	80.5	20.4		
VORIS SEEDS V2562		112.1	105.4	22.1	79.9	17.8	WHITE								
MIGRO M-6666		118.1	105.2	21.1	74.6	9.1	MCNAIR X233		106.3	94.3	25.3	85.6	24.1		
GUTWEIN 64			105.1	21.0	79.5	20.5	WHITE AVERAGE		106.3	94.3	25.3	85.6	24.1		
TROJAN TXS 113	121.9	114.0	104.6	20.2	81.8	17.0	GRAND AVERAGE	117.8	113.4	104.2	21.5	80.6	20.4		
MCNAIR X194			103.8	21.0	80.7	17.2									
MCNAIR X170			102.7	20.5	79.9	15.2									
NORTHROP-KING PX76		113.6	102.0	21.6	77.7	16.5									

TABLE 14.—THREE-YEAR SUMMARY (1972-74), NORMAL POPULATION, ALL NON-VIRUS LOCATIONS.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
PIONEER BRAND 3369A	154.7	20.5	85.5	7.5
BO-JAC X83	152.3	20.6	85.6	7.0
PIONEER BRAND 3368	143.4	21.1	83.5	6.2
PRINCETON SX 850	141.7	20.6	86.7	8.6
P-A-G SX 39	137.7	22.2	79.4	8.6
ASGROW RX 115	136.9	21.8	84.4	12.6
FUNK'S G4646	131.7	21.1	82.0	6.5
PIONEER BRAND 3571	130.3	18.8	83.9	4.0
YELLOW AVERAGE	141.1	20.8	83.9	7.6
WHITE				
P-A-G SX 70W	138.1	23.8	83.9	13.0
DEKALB XL390W	136.0	23.4	84.4	12.6
PIONEER BRAND 511A	135.4	23.7	84.4	17.3
STULL'S WSX2788	133.9	23.4	85.7	16.5
P-A-G 644W	130.5	23.2	83.9	12.3
WHITE AVERAGE	134.8	23.5	84.5	14.4
GRAND AVERAGE	138.7	21.9	84.1	10.2

TABLE 2.—HYBRIDS TESTED IN 1974.

Hybrid		Test *	Color	Cross **	Source of Hybrid
A.C.C.O.	UC8801	A	Yellow	2X	ACCO Seed, Div. of Anderson, Clayton & Co. P.O. Box 9 Belmond, Ia. 50421
	UC9301	A	"	2X	
Asgrow	RX99A	A	Yellow	2X(Mod.)	Asgrow Seed Co. Des Moines, Ia 50310
	RX115	AC	"	2X	
	RX123W	C	White	3X	
	RX125W	C	"	3X	
Bo-Jac	XLA	A	Yellow	2X	Bo-Jac Hybrid Corn Co. Boute # 2 Mt. Pulaski, Ill. 62548
	X7L	BC	"	2X	
	X7L-10	B	"	2X	
	X62	B	"	2X	
	X83	AC	"	2X	
	8371	C	"	4X	
Broadbent	B + B 9-2	A	Yellow	2X	Broadbent Hybrids Route # 1 Cadiz, Ky. 42211
	B + B 10-3	A	"	3X	
	B + B 11-7	A	"	2X	
Coker	16	AB	Yellow	2X(Mod.)	Cokers Pedigreed Seed Co. P.O. Box 340 Hartsville, S.C. 29550
	56	AC	"	4X	
Dekalb	XL68	AB	Yellow	2X	Dekalb Agr. Research Inc. Dekalb, Ill. 60015
	XL72B	ABC	"	2X	
	XL78	AB	"	2X	
	XL80	A	"	2X	
	XL390W	A	White	3X	
Funk's	G4628	A	Yellow	2X	Funk Seeds International, Inc. 1300 W. Washington Bloomington, Ill. 61701
	G4646	AB	"	SPX	
	G4737	AB	"	2X	
	G4762	C	"	3X	
	G4770	A	"	SPX	
	G5666	A	"	4X	
	G4810	C	"	2X	
	Exp. 25601	C	"	2X	
	Exp. 26550	C	"	3X	
Golden Harvest	H2626	C	Yellow	2X(Mod.)	Columbiana Seed Co. Eldred, Ill. 62027
	H2655	A	"	2X(Mod.)	
	H2660	A	White	2X(Mod.)	
	H2690	A	Yellow	2X(Mod.)	
	H2750	AC	"	3X	
	H2831	C	"	"	
Gutwein	64	B	Yellow	2X	Fred Gutwein & Sons, Inc. R.R.1, Box 40 Francesville, Ind. 47946
	65A	B	"	2X	
	86	A	"	2X	
	88A	A	"	2X	

(Footnotes appear at end of table.)

(continued)

TABLE 2.--(continued)

Hybrid		Test *	Color	Cross **	Source of Hybrid
Holdens	1026	C	Yellow	2X(Mod.)	Holdens Foundation Seeds
	1028	C	"	2X(Mod.)	Williamsburg, Ia.
	1048	C	"	2X	52361
Hulting	X770	BC	Yellow	2X	"Hulting Hybrids" Div of
	X980	AB	"	2X	Ferry Morse
	X8775	C	"	3X	Box 24
	X9861	B	"	3X	Geneseo, Ill.
	X9880	AB	"	3X	61254
	Exp. 73649	C	"	2X	
K.A.E.S.	Ky 105	BC	Yellow	4X	Kentucky Agricultural
	Ky 5921W	C	White	4X	Experiment Station University of Kentucky Lexington, Ky. 40506
Mason	5550	A	White	3X	Mason Hybrid Corn Co., Inc.
	8869	A	Yellow	2X	1017 W. Main St.
	9997	C	"	3X	P.O. Box 4 Princeton, Ky. 42445
McNair	X170	B	Yellow	2X	McNair Seed Co.
	X190	AB	"	2X	P.O. Box 706
	X194	B	"	2X	Laurinburg, N.C.
	X233	AB	White	2X	28352
	X300	C	Yellow	2X	
	6338	C	"	3X	
	73002	C	"	2X	
	Migro	M-600	C	Yellow	2X
M-5045		B	"	4X	Box 7
M-6666		B	"	2X	Mitchell, Ind.
M-7070		AB	"	2X	47446
M-7072		AB	"	2X	
Muncy Chief		SX662	B	Yellow	2X
	H764	B	"	4X	Market & High Streets
	SX878	A	"	2X	Muncy, Pa.
	3X898	A	"	3X	17756
	Northrup-King	PX74	AB	Yellow	2X
PX76		AB	"	2X	1500 Jackson St., N.W.
PX77		AB	"	2X	Minneapolis, Minn.
PX79		B	"	2X	55413
PX91		C	"	2X	
PX737		C	"	3X	
P.A.G.		SX17A	AC	Yellow	2X
	SX39	A	"	2X	Box 2187 Loop Station
	SX98	A	"	2X	Minneapolis, Minn.
	SX70W	A	White	2X	55402
	644W	A	"	3X	

(continued)

TABLE 13.--TWO-YEAR SUMMARY (1973-74), NORMAL POPULATION, ALL NON-VIRUS LOCATIONS.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW				
ZIMMERMAN Z24Y	158.3	20.8	88.1	6.2
PIONEER BRAND 3369A	154.4	21.0	84.3	4.4
BO-JAC X83	152.7	21.2	86.7	4.9
MIGRO M-7072	149.8	21.7	87.1	4.4
DEKALB XL80	149.7	23.2	85.9	6.4
S S HYBRIDS JX-86	145.2	21.4	83.4	5.7
MCNAIR X190	143.6	23.2	86.0	3.6
PIONEER BRAND 3368	143.5	21.7	82.3	2.7
GUTWEIN 86	143.4	20.9	85.0	4.0
SG. STATES SS775	142.8	21.6	84.4	2.3
BO-JAC X1A	142.6	21.7	81.6	3.8
PRINCETON SX 850	142.1	21.2	85.9	4.8
SUPER CROST 7772	141.9	21.6	86.2	5.3
FUNK'S G4628	140.7	23.1	86.4	3.4
ASGROW RX 115	138.8	22.7	83.9	6.1
P-A-G SX 39	138.2	23.0	80.0	6.1
TROJAN TXS 113	136.8	21.4	84.4	2.8
NORTHROP-KING PX77	136.6	20.8	86.2	4.2
FUNK'S G4646	136.4	22.0	83.3	4.6
P-A-G SX 98	136.3	23.0	82.5	3.8
B & B 10-3	133.7	21.6	84.4	4.4
B & B 11-7	133.4	22.6	83.0	6.5
MUNCY CHIEF 3X898	132.4	21.7	79.7	7.9
HULTING X9880	132.0	22.8	83.5	5.9
B & B 9-2	131.6	20.9	85.6	6.2
PIONEER BRAND 3571	131.0	18.7	83.0	3.1
YELLOW AVERAGE				
	141.1	21.7	84.3	4.8
WHITE				
ZIMMERMAN Z11W	143.6	25.8	75.5	4.1
PIONEER BRAND 511A	139.6	24.7	84.3	11.1
P-A-G SX 70W	137.1	24.9	83.9	8.0
DEKALB XL390W	135.8	24.5	85.2	6.5
STULL'S WSX2788	131.3	23.9	86.0	12.6
P-A-G 644W	130.4	24.3	84.5	6.3
WHITE AVERAGE				
	136.3	24.7	83.2	8.1
GRAND AVERAGE				
	140.2	22.3	84.1	5.4

TABLE 12.—ANNUAL SUMMARY (1974), NORMAL POPULATION, ALL NON-VIRUS LOCATIONS.

HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	HYBRID	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED
YELLOW									
TROJAN TXS 114	160.9	23.4	89.1	4.3	MUNCY CHIEF 3X898	136.1	22.0	79.9	11.5
ZIMMERMAN Z24Y	159.9	22.1	86.4	8.7	FUNK'S G5666	134.7	23.4	85.6	7.8
PIONEER BRAND 3369A	157.6	22.4	83.9	6.6	FUNK'S G4737	134.7	24.3	84.2	6.3
BO-JAC X83	153.9	22.5	85.4	4.2	NORTHROP-KING PX74	134.4	21.9	81.7	3.3
GUTWEIN 88A	152.5	24.7	89.5	6.7	A.C.C.O. UC 8801	134.3	22.2	80.3	11.5
DEKALB XL78	150.7	23.9	87.6	7.3	COKER 16	133.6	22.5	84.8	4.9
SO.STATES SS775	149.5	22.5	84.8	2.7	T-E 6969	133.3	24.6	82.2	8.1
T-E 6968	149.5	23.0	82.7	3.3	ASGRDW RX 115	132.6	23.8	81.3	7.5
NORTHROP-KING PX76	149.1	22.6	87.5	5.1	P-A-G SX 98	131.8	24.0	79.8	4.8
DEKALB XL80	148.3	24.3	84.8	9.1	A.C.C.O. UC 9301	131.8	22.9	80.4	12.8
TROJAN TXS 115A	147.4	22.0	86.3	3.5	HULTING X9880	131.6	23.7	81.7	6.8
S S HYBRIDS JX-86	146.5	22.8	85.0	7.0	B & B 9-2	131.4	21.9	84.2	9.5
MIGRO M-7072	146.1	23.2	85.8	4.9	B & B 11-7	130.8	23.8	81.3	7.5
PRINCETON SX 630	146.1	23.3	86.8	3.7	GOLDEN HARVEST H2750	129.8	25.0	80.1	7.7
DEKALB XL728	145.9	22.7	87.7	3.6	COKER 56	129.4	28.6	82.4	7.4
GUTWEIN 86	145.7	22.3	85.7	5.0	PIONEER BRAND 3571	129.0	20.2	79.9	4.8
PIONEER BRAND 3368	144.8	23.0	84.2	3.4	SO.STATES SS715	127.6	21.5	85.4	7.0
BO-JAC X1A	144.2	23.5	80.6	3.0	SEED KEM SKX-88A	127.2	22.8	84.6	3.3
STULL'S SX2666	144.0	22.9	83.9	6.8	SEED KEM SKX-66	126.7	21.6	79.5	3.3
PIONEER BRAND 3161	143.7	23.4	82.6	6.2	STEWART SX 68	124.9	21.4	78.8	7.7
PRINCETON SX 850	143.5	22.5	86.8	7.2	VORIS SEEDS V2632	123.6	21.5	81.8	4.9
GOLDEN HARVEST H2655	142.9	22.5	83.7	4.0	VORIS SEEDS V2662	118.2	23.8	75.8	12.1
SUPER CROST 7772	142.9	22.7	84.0	7.1	SO.STATES SS840	117.6	22.9	72.7	8.0
STEWART SX 71K	142.8	22.2	84.6	5.9	GOLDEN HARVEST H2690	95.4	24.3	69.9	5.2
S S HYBRIDS JX-7101	142.2	22.7	87.1	2.4					
MASON 8869	142.1	23.8	87.0	9.1	YELLOW AVERAGE	138.6	23.1	83.4	6.4
SUPER CROST 5440	142.0	22.3	83.1	2.1	WHITE				
STULL'S SX2700	141.7	23.1	85.2	6.3	ZIMMERMAN Z11W	159.0	26.5	88.2	6.1
FUNK'S G4646	141.3	22.6	84.2	5.3	PRINCETON SX 910	155.9	25.9	87.1	6.6
STULL'S SX2744	141.1	23.9	84.8	8.5	MCNAIR X233	152.0	26.7	90.0	4.9
FUNK'S G4628	140.9	24.1	86.8	4.5	GOLDEN HARVEST H2660	147.4	25.9	80.7	4.5
MCNAIR X190	140.6	24.2	86.7	5.4	PIONEER BRAND 511A	142.7	26.5	83.9	14.6
TROJAN TXS 113	140.6	22.3	86.5	3.0	P-A-G SX 70W	141.3	26.3	82.1	7.8
MUNCY CHIEF SX878	139.9	24.1	82.3	12.3	DEKALB XL390W	138.9	26.4	82.7	8.2
PIONEER BRAND 3535	138.1	20.3	84.3	3.7	STULL'S WSP2799	138.8	24.5	84.8	10.1
HULTING X980	137.6	23.8	84.1	6.5	STULL'S WSX2788	135.8	24.9	85.1	11.4
B & B 10-3	137.5	22.7	82.5	5.0	PRINCETON SP 935	135.5	25.2	83.7	9.8
DEKALB XL68	137.4	22.4	84.5	7.9	MASON 5550	131.2	25.1	83.3	13.0
ASGRDW RX 99A	137.4	24.4	87.2	5.0	P-A-G 644W	125.7	26.4	81.2	8.5
P-A-G SX 17A	137.3	22.6	82.4	8.4	WHITE AVERAGE	142.0	25.9	84.4	8.8
NORTHROP-KING PX77	136.5	22.1	85.4	6.6					
P-A-G SX 39	136.5	24.0	78.6	9.6	GRAND AVERAGE	139.1	23.5	83.6	6.7
FUNK'S G4770	136.3	24.1	87.2	9.6					
MIGRO M-7070	136.3	24.0	76.2	7.6					

TABLE 2.—(continued)

Hybrid	Test #	Color	Cross #	Source of Hybrid
Pioneer Brand				
511A	A	White	4X	Pioneer H4-Bred, Inc.
3145	C	Yellow	3X	221 N. Main St.
3147	C	"	2X(Mod.)	Tipton, Ind.
3161	AB	"	3X(Mod.)	46072
3179	C	"	2X(Mod.)	
3369A	A	"	2X	
3368	A	"	2X(Mod.)	
3535	AB	"	2X	
3571	AB	"	2X(Mod.)	
Princeton				
SX630	A	Yellow	2X	Princeton Farms
865	C	"	4X	P.O. Box 319
SX850	A	"	2X	Princeton, Ind.
MD885	C	"	4X	47670
SX910	AC	White	2X	
SP935	A	"	SPX	
Seedkem				
SKX66	AB	Yellow	2X	Seed Kem Inc.
SKX88A	A	"	2X	526 N.W. Fourth St.
				Evansville, Ind.
				47701
So. States				
S.S. 715	A	Yellow	3X	Southern States Coop, Inc.
S.S. 750	B	"	SPX	2600 Durham St.
S.S. 775	AB	"	2X	Richmond, Va.
S.S. 840	A	"	4X	23220
S.S. 866	C	"	4X	
S.S. Hybrids				
JX86	AB	Yellow	2X	S.S. Hybrids
JX7101	AB	"	2X	Camden, Ind.
				46917
Stull's				
SX2666	A	Yellow	2X	Stull Hybrids Inc.
SX2700	AC	"	2X	P.O. Box 7
SX2744	A	"	2X	Sebree, Ky.
WSX2788	A	White	2X	42495
WSP2799	A	"	3X	
SP2825	C	Yellow	3X	
Stewart's				
SX58	B	Yellow	2X	Stewart Hybrids
SX68	A	"	2X	Princetonville, Ill.
SX71K	AB	"	2X	61559
Super Crost				
567	B	Yellow	2X	Edr. J. Funk & Sons, Inc.
70DR	C	"	2X	P.O. Box 67
S85	B	"	2X	Kentland, Ind.
5440	A	"	2X	47951
7772	AB	"	2X	
Taylor-Evans				
VR-20Y	C	Yellow	4X	Taylor-Evans Seed Co.
T-E6968	A	"	2X	P.O. Box 68
T-E6969	A	"	2X	Tulsa, Tx.
				79088

(continued)

TABLE 10.—ANNUAL SUMMARY (1974), NORMAL POPULATION, LEXINGTON, KY.

HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS			HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS											
			YIELD BU/AC	AVG % MOIST	AVG % STAND				TOTAL % LOGGED	YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LOGGED							
YELLOW						YELLOW														
ZIMMERMAN Z24Y		185.0	201.0	25.0	95.3	5.6	FUNK'S G4628	147.9	158.1	25.7	95.3	1.6								
GUTWEIN 88A			188.6	28.8	94.8	1.7	PIONEER BRAND 3161		158.0	27.7	88.5	1.7								
S S HYBRIDS JX-86		170.9	188.4	25.7	97.4	1.0	P-A-G SX 17A		157.9	25.6	92.7	11.6								
DEKALB XL78			187.8	26.5	95.3	2.3	MCNAIR X190	152.7	157.9	26.2	94.8	5.0								
PRINCETON SX 630			184.4	25.5	100.0	1.6	STULL'S SX2700		156.1	26.4	87.0	0.0								
SO. STATES SS775			181.1	25.5	92.7	2.8	GOLDEN HARVEST H2750		155.0	29.0	83.9	7.1								
STULL'S SX2666			180.4	27.4	90.6	1.8	ASGROW RX 115	150.9	149.7	154.3	29.4	92.7	0.0							
NORTHROP-KING PX76			178.9	25.3	95.8	2.6	STULL'S SX2744		154.0	27.1	93.8	6.1								
MUNCY CHIEF SX878			177.4	26.9	88.5	4.3	HULTING X9880		149.5	153.8	27.3	91.7	7.6							
T-E 6968			177.1	24.4	90.6	3.5	FUNK'S G4737		151.0	27.5	84.9	1.2								
DEKALB XL68			176.7	25.3	94.8	3.3	FUNK'S G5666		150.7	25.9	91.7	5.7								
BO-JAC X83	167.9	161.4	176.4	25.3	92.2	0.0	DEKALB XL72B		150.2	25.3	92.2	3.4								
MIGRO M-7070			176.4	26.8	85.9	0.6	FUNK'S G4770		149.7	27.8	90.1	2.3								
GUTWEIN 86			174.2	25.9	91.1	1.7	SEED KEM SKX-66		149.5	24.3	84.4	0.0								
DEKALB XL80			169.8	174.1	28.5	86.5	3.7	A.C.C.O. UC 8801		148.3	24.8	81.8	13.5							
NORTHROP-KING PX77			173.4	174.0	25.4	94.8	1.1	SO. STATES SS715		146.7	24.4	90.1	1.1							
BO-JAC X1A			161.1	173.5	26.5	96.4	1.1	B & B 10-3	144.9	146.5	26.0	82.8	4.9							
GOLDEN HARVEST H2655			171.6	25.2	85.9	1.8	FUNK'S G4646	145.2	144.3	145.3	25.6	76.6	1.4							
MUNCY CHIEF 3X898		144.7	171.3	25.3	93.2	4.6	SO. STATES SS840		142.0	25.5	81.8	2.5								
PIONEER BRAND 3369A	165.6	164.5	170.2	25.3	81.8	1.7	P-A-G SX 98	137.6	139.1	27.7	88.0	4.2								
PIONEER BRAND 3535			169.5	23.3	95.8	0.5	COKER 56		136.6	31.9	84.4	1.9								
B & B 9-2		159.1	168.2	25.0	87.0	2.2	VORIS SEEDS V2632		134.8	24.5	88.5	1.8								
HULTING X980			167.5	25.8	92.7	0.6	VORIS SEEDS V2662		122.0	26.2	73.4	4.0								
P-A-G SX 39	150.9	162.3	167.5	27.0	91.7	11.0	GOLDEN HARVEST H2690		110.5	27.9	75.0	0.0								
TROJAN TXS 115A			167.0	23.9	91.1	3.8	YELLOW AVERAGE	155.1	158.0	162.5	26.1	90.1	3.2							
MASON 8869			166.6	26.2	91.7	4.5	WHITE													
STEWART SX 68			166.6	25.3	89.6	2.2	ZIMMERMAN Z11W		155.6	195.2	31.6	96.4	2.2							
PRINCETON SX 850	158.5	163.6	166.0	25.5	92.7	6.5	PRINCETON SX 910		186.6	31.3	92.2	0.6								
TROJAN TXS 114			165.3	25.8	90.6	7.3	GOLDEN HARVEST H2660		183.8	32.7	93.8	0.5								
PIONEER BRAND 3571	141.0	150.7	164.8	22.9	95.8	0.5	PRINCETON SP 935		182.5	29.1	91.7	0.6								
MIGRO M-7072		152.7	164.5	26.4	90.6	1.6	MCNAIR X233		179.5	33.7	99.5	2.6								
NORTHROP-KING PX74			164.1	24.5	90.6	0.6	STULL'S WSP2799		177.7	28.5	93.2	5.1								
T-E 6969			163.5	29.5	95.8	2.2	PIONEER BRAND 511A	138.9	141.8	173.9	31.7	96.9	2.1							
S S HYBRIDS JX-7101			163.4	26.4	96.4	0.5	P-A-G SX 70W	154.0	158.9	173.1	31.7	91.1	3.2							
ASGROW RX 99A			163.3	28.4	93.2	0.6	DEKALB XL390W	156.5	153.8	168.6	31.5	90.1	1.0							
SUPER CROST 5440			163.0	25.3	95.8	1.0	STULL'S WSX2788	143.9	142.4	165.6	28.3	97.4	3.7							
A.C.C.O. UC 9301			162.1	25.7	88.5	17.3	MASON 5550		165.4	30.9	92.7	2.8								
SUPER CROST 7772		157.9	162.0	25.8	90.1	3.8	P-A-G 644W	150.2	153.4	158.9	32.6	93.2	3.4							
SEED KEM SKX-88A			161.0	25.4	94.3	1.1	WHITE AVERAGE	120.5	151.0	175.9	31.1	94.0	2.3							
COKER 16			160.7	25.4	94.3	5.6	GRAND AVERAGE	141.8	156.7	164.5	26.9	90.7	3.1							
STEWART SX 71K			160.6	24.9	94.3	2.2														
TROJAN TXS 113		158.8	160.5	24.6	90.6	0.6														
PIONEER BRAND 3368	160.8	158.9	159.4	26.5	79.2	4.4														
B & B 11-7		150.6	158.6	27.2	85.4	4.2														

20

13

TABLE 3.—AGRONOMIC INFORMATION PERTAINING TO 1974 TEST LOCATIONS.

Location and Cooperator	Soil Type	Fertilizer lb/A	Herbicide	Insecticide	Planting Date	Harvest Date	Comments
(1) Mayfield, Ky. Berthal Johnson	Collins Silt Loam	N - 175 P ₂ O ₅ -40 K ₂ O-40	Aatrex and Lasso	Furadan 10 lb/A	April 29	Sept. 24	
(2) Princeton, Ky. Western Ky. Substation	Huntington & Lindsie Silt Loam	N - 150 P ₂ O ₅ -None K ₂ O-60	Aatrex and Eradicane Preplant Incorporated	"	May 21 " 29	Oct. 18(N) Oct. 22(H)	Johnsongrass Control Program S.W. Corn Borer
(3) Henderson, Ky. Janes McConathy	Wakeland Silt Loam	N - 200 P ₂ O ₅ -172 K ₂ O- 90	Aatrex and Sutan + Preplant Incorporated	"	May 14	Oct. 17	
(4) Hartford, Ky. Walter & Earl Campbell	Stendal Silt Loam	N- 200 P ₂ O ₅ -80 K ₂ O- -80	Aatrex and Sutan + Preplant Incorporated	"	May 1	Sept. 26	
(5) Russellville, Ky. Charles Noe	Pembroke Silt Loam	N - 106 P ₂ O ₅ - 102 K ₂ O - 102	Aatrex and Eradicane Preplant Incorporated	"	April 26	Sept. 20	Corn Viruses
(6) Franklin, Ky. Bob Wade	Bedford Silt Loam	N - 160 P ₂ O ₅ - 160 K ₂ O - 160	Aatrex, Lasso, and Paraquat Preplant	"	April 25	Sept. 19	No-till, Fescue sod, incomplete sod kill.
(7) Elizabethtown, Ky. J. W. Miller	Crider Silt Loam	N - 125 P ₂ O ₅ - 100 K ₂ O - 100	Aatrex and Paraquat Preplant	"	April 24	Sept. 30	No-till Orchardgrass sod.
(8) Lexington, Ky. Ky A.E.S. Spindletop Farm	Lanton Silt Loam	N - 150 P ₂ O ₅ -None K ₂ O- 60	Princep and Eradicane Preplant Incorporated	"	May 7	Oct. 3(N) Oct. 3(H)	
(9) Quicksand, Ky. Robinson Substation	Jefferson Silt Loam	N - 160 P ₂ O ₅ -60 K ₂ O-60	Aatrex Broadcast	"	May 13	Oct. 28	

TABLE 4.—ANNUAL SUMMARY (1974), NORMAL POPULATION, MAYFIELD, KY.

HYBRID	3-YR YIELD BU/AC	2-Yr YIELD BU/AC	1974 RESULTS				HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS					
			YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED				YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED		
YELLOW						YELLOW									
TROJAN TXS 114			198.7	20.9	97.9	0.5	STULL'S SX2744			153.9	23.0	87.0	0.7		
SO.STATES SS775		144.9	178.1	20.3	96.4	1.1	COKER 16			153.5	20.5	90.1	0.6		
T-E 6968			177.2	21.7	91.1	1.1	GOLDEN HARVEST H2750			153.0	22.2	90.6	0.6		
NORTHHRUP-KING PX76			176.0	21.2	94.3	2.8	A.C.C.O. UC 9301			151.9	22.3	79.7	1.2		
PIONEER BRAND 3368	156.3	153.7	172.4	22.0	96.4	0.0	PRINCETON SX 850	136.0	132.2	151.5	20.7	90.1	0.0		
STULL'S SX2700			170.4	21.2	95.3	1.1	STULL'S SX2666			150.8	21.7	89.6	0.6		
DEKALB XL80		155.0	170.2	22.2	83.9	0.7	ASGROW PX 99A			150.6	21.8	92.2	0.0		
S S HYBRIDS JX-86		153.2	169.9	21.1	86.5	1.2	PRINCETON SX 630			150.5	21.6	87.5	1.1		
DEKALB XL78			169.3	23.1	94.3	1.9	PIONEER BRAND 3535			150.5	19.2	89.6	0.0		
STEWART SX 71K			168.2	21.0	94.3	0.5	MCNAIR X190		152.1	150.4	23.3	94.8	0.0		
FUNK'S G4628		148.8	166.6	22.7	94.8	0.0	HULTING X980			149.9	23.5	90.1	2.9		
MIGRO M-7072		156.8	164.1	22.7	94.8	0.6	P-A-G SX 39	130.7	126.0	149.0	22.0	80.7	0.8		
ZIMMERMAN Z24Y		165.4	163.6	21.5	90.1	1.1	HULTING X9880		144.9	146.4	22.4	83.9	2.0		
GUTWEIN 88A			163.4	21.8	96.4	2.2	SUPER CROST 5440			145.5	20.6	95.3	0.6		
GOLDEN HARVEST H2655			163.1	19.0	89.6	1.1	SEED KEM SKX-88A			142.6	20.5	88.0	1.1		
PIONEER BRAND 3161			163.0	22.2	87.5	0.6	SO.STATES SS715			142.5	20.0	92.2	1.7		
MASON 8869			162.8	22.4	90.1	1.3	NORTHHRUP-KING PX74			141.6	18.6	91.7	0.5		
MUNCY CHIEF SX878			162.6	22.9	93.8	2.2	SEED KEM SKX-66			140.3	20.1	80.2	0.0		
B & B 11-7		142.8	162.4	22.4	93.2	2.3	STEWART SX 68			139.5	18.0	88.5	4.8		
FUNK'S G5666			162.3	20.4	91.1	0.0	P-A-G SX 98		141.2	139.4	22.1	91.1	0.0		
BO-JAC X83	149.1	153.2	161.8	21.2	85.4	0.0	VORIS SEEDS V2632			137.2	20.2	90.1	1.6		
TROJAN TXS 113			151.4	20.2	92.7	0.6	SO.STATES SS840			137.1	21.5	70.3	2.1		
B & B 10-3			141.8	21.0	94.3	1.1	VORIS SEEDS V2662			137.0	21.7	83.9	2.6		
PIONEER BRAND 3369A	154.9	152.9	160.4	21.9	90.1	0.0	GOLDEN HARVEST H2690			97.7	22.7	69.3	3.0		
FUNK'S G4646	130.1	137.2	160.1	21.3	88.5	0.0									
P-A-G SX 17A			160.1	20.7	92.2	0.5	YELLOW AVERAGE	143.1	147.0	156.5	21.3	89.8	1.2		
PIONEER BRAND 3571	136.3	145.4	159.2	18.6	89.6	0.0									
FUNK'S G4737			159.1	22.0	94.8	1.1	WHITE								
T-E 6969			159.1	22.6	90.6	4.1	MCNAIR X233			185.0	23.2	95.3	2.2		
DEKALB XL68			158.8	18.9	95.3	1.6	PRINCETON SX 910			176.8	21.3	89.1	4.2		
ASGROW RX 115	151.7	150.7	158.6	20.6	91.1	3.2	ZIMMERMAN Z11W		144.8	176.1	23.1	94.8	0.6		
S S HYBRIDS JX-7101			158.5	21.3	87.0	0.0	GOLDEN HARVEST H2660			174.7	21.7	90.1	1.7		
MUNCY CHIEF 3X898	146.5	158.0	20.7	88.5	2.4	P-A-G 644W	148.3	145.9	167.9	23.0	92.7	2.9			
MIGRO M-7070			157.8	22.4	81.3	0.0	DEKALB XL390W	148.7	151.8	166.8	24.2	90.6	2.3		
TROJAN TXS 115A			157.4	18.8	93.2	0.0	PIONEER BRAND 511A	148.6	150.4	166.1	23.2	91.1	14.3		
GUTWEIN 86	147.5	157.1	20.8	88.0	0.6	P-A-G SX 70W	150.2	143.7	164.3	23.9	89.6	1.3			
BO-JAC X1A		144.0	156.9	21.2	83.3	0.0	MASON 5550			162.4	22.9	86.5	4.2		
DEKALB XL72B			156.5	20.6	90.1	1.2	STULL'S WSP2799			159.3	22.0	91.1	2.7		
FUNK'S G4770			156.3	22.8	96.9	2.2	PRINCETON SP 935			159.3	21.9	92.7	2.2		
A.C.C.O. UC 8801			155.8	20.0	89.1	5.3	STULL'S WSX2788	137.3	130.0	141.2	22.5	93.8	3.8		
COKER 56			155.8	26.0	92.7	3.9									
B & B 9-2	133.2	155.4	21.5	94.8	1.6	WHITE AVERAGE	146.6	144.4	166.7	22.8	91.4	3.5			
SUPER CROST 7772		152.0	155.3	21.4	88.5	0.0	GRAND AVERAGE	144.5	146.5	158.0	21.5	90.1	1.6		
NORTHHRUP-KING PX77		148.9	153.9	20.6	90.6	1.7									

14

TABLE 9.—ANNUAL SUMMARY (1974), NORMAL POPULATION, NO-TILL, ELIZABETHTOWN, KY.

HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS				HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS					
			YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED				YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED		
YELLOW						YELLOW									
ZIMMERMAN Z24Y		158.7	184.0	23.7	90.1	3.7	ASGROW RX 99A			143.2	27.5	88.5	0.0		
PRINCETON SX 850	142.1	140.8	171.5	23.0	81.3	6.5	PRINCETON SX 630			142.9	25.3	81.8	0.0		
MIGRO M-7072		146.3	170.5	23.9	88.0	1.1	S S HYBRIDS JX-7101			141.8	25.6	81.3	0.0		
DEKALB XL80		143.7	170.1	24.3	87.0	0.0	MUNCY CHIEF 3X898		119.7	141.5	22.4	67.7	2.0		
BO-JAC X83	156.7	156.6	169.8	23.7	84.4	3.2	FUNK'S G4628			122.3	141.3	25.6	88.0	4.1	
PIONEER BRAND 3369A	150.3	145.5	165.9	23.6	79.7	0.6	FUNK'S G4646	130.9	128.1	140.6	25.4	79.2	0.0		
PIONEER BRAND 3368	136.2	136.0	165.4	23.6	76.0	0.0	FUNK'S G4737			140.1	26.1	77.1	0.0		
ASGROW RX 115	144.7	143.9	164.6	25.0	85.9	0.6	DEKALB XL72B			139.3	24.3	81.8	0.0		
SO.STATES SS775		143.0	162.6	24.4	89.6	0.0	DEKALB XL68			138.6	25.3	78.6	0.0		
S S HYBRIDS JX-86		143.2	162.1	23.9	83.3	4.4	TROJAN TXS 115A			138.5	22.5	82.3	0.6		
STEWART SX 71K			161.9	23.1	82.3	0.0	A.C.C.O. UC 9301			136.5	25.2	77.1	5.6		
PIONEER BRAND 3161			161.5	25.2	74.5	1.5	B & B 9-2		115.9	136.3	24.2	86.5	3.4		
GUTWEIN 88A			161.2	25.1	87.5	3.5	GOLDEN HARVEST H2655			135.0	25.8	77.1	0.0		
STULL'S SX2700			159.5	24.9	87.5	0.6	TROJAN TXS 113		117.4	134.7	24.8	82.3	2.3		
A.C.C.O. UC 8801			158.4	23.1	82.3	6.4	VORIS SEEDS V2632			134.0	23.2	79.7	1.8		
GUTWEIN 86		149.8	158.1	23.3	85.4	0.0	SUPER CROST 5440			133.5	24.0	76.6	2.0		
P-A-G SX 39	140.6	142.8	157.5	24.9	70.8	0.8	NORTHHRUP-KING PX74			130.8	23.6	77.1	0.6		
MIGRO M-7070			157.5	24.9	76.6	0.7	B & B 11-7		123.7	127.3	25.3	74.5	0.6		
DEKALB XL78			156.9	25.1	85.4	1.2	PIONEER BRAND 3571		121.2	126.1	22.0	69.8	0.0		
PIONEER BRAND 3535			156.5	22.3	79.2	1.3	T-E 6969			123.7	24.6	76.6	3.4		
SUPER CROST 7772		129.5	156.2	24.6	81.8	0.0	SEED KEM SKX-66			121.9	23.6	76.0	0.0		
TROJAN TXS 114			155.7	24.1	89.6	2.9	P-A-G SX 98		113.3	121.5	25.4	68.2	2.1		
HULTING X9880		133.2	155.5	24.4	84.4	1.1	STEWART SX 68			113.1	23.4	70.8	0.0		
MASON 8869			154.4	24.1	82.8	2.4	GOLDEN HARVEST H2690			95.9	25.7	60.9	0.0		
NORTHHRUP-KING PX76			151.6	24.7	84.9	0.0									
STULL'S SX2666			151.5	25.2	78.6	1.3	YELLOW AVERAGE	140.6	133.9	147.6	24.5	80.3	1.3		
GOLDEN HARVEST H2750			151.5	25.8	79.2	0.6	WHITE								
NORTHHRUP-KING PX77		115.0	150.9	22.9	82.8	0.6	DEKALB XL390W	145.8	145.0	175.2	25.4	81.8	0.6		
FUNK'S G4770			150.7	25.7	80.7	0.0	MCNAIR X233			174.5	26.6	88.0	0.0		
COKER 56			150.3	29.1	85.9	1.9	P-A-G SX 70W	140.5	136.3	170.3	24.7	84.9	0.6		
COKER 16			149.4	25.3	84.4	0.0	PRINCETON SX 910			169.8	26.6	83.3	0.0		
SO.STATES SS840			149.3	24.3	75.5	0.0	ZIMMERMAN Z11W			168.6	26.7	82.3	4.4		
BO-JAC X1A		128.5	149.0	23.9	75.5	0.0	PIONEER BRAND 511A	130.9	137.4	166.9	27.4	77.1			

TABLE 8.—ANNUAL SUMMARY (1974), NORMAL POPULATION, NO-TILL, FRANKLIN, KY.

HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS				HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS										
			YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED				YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED							
YELLOW																				
GUTWEIN 86		181.4	177.1	23.6	80.7	0.5	YELLOW													
PIONEER BRAND 3369A	164.5	156.6	161.8	23.4	81.3	2.7	STEWART SX 68				118.7	25.1	72.4	0.0						
TROJAN TXS 114			159.3	26.7	72.4	0.0	MCNAIR X190		135.4		116.6	28.5	70.3	2.7						
FUNK'S G4770			158.8	27.9	90.6	0.5	VORIS SEEDS V2632				116.2	22.8	75.0	0.8						
FUNK'S G4646		155.6	158.2	23.8	81.3	0.0	STEWART SX 71K				115.9	25.1	64.6	1.2						
ZIMMERMAN Z24Y		160.9	153.2	22.5	69.8	0.0	PIONEER BRAND 3161				115.2	26.7	60.4	0.0						
MASON 8869			152.7	26.1	87.5	3.6	PIONEER BRAND 3368	129.3	123.5		114.5	26.2	67.2	1.7						
DEKALB XL72B			151.2	24.2	81.8	2.6	P-A-G SX 98			132.1	114.3	27.7	62.0	0.6						
STULL'S SX2666			150.2	23.9	80.7	3.2	FUNK'S G4737				113.9	28.3	65.6	0.9						
STULL'S SX2744			148.6	26.1	79.2	2.4	PIONEER BRAND 3535				113.8	23.4	72.9	1.3						
S S HYBRIDS JX-7101			144.2	24.8	79.7	2.1	SEED KEM SKX-66				113.7	25.0	75.5	1.7						
DEKALB XL80		151.1	143.7	27.6	74.5	1.6	NORTHROP-KING PX77				122.4	112.3	23.5	69.8	1.8					
BO-JAC X83		152.4	143.5	24.0	71.4	2.2	MIGRO M-7070				111.7	26.0	60.9	0.8						
GUTWEIN 88A			143.4	27.6	78.6	2.2	HULTING X9880				133.1	107.0	25.8	58.9	2.8					
FUNK'S G5666			142.6	25.9	76.6	1.9	COKEP 56				106.6	35.6	65.1	2.6						
HULTING X980			142.0	26.4	85.9	3.0	A.C.C.O. UC 9301				106.2	25.1	71.4	1.1						
PRINCETON SX 850		152.4	140.2	25.7	80.7	4.6	B & B 9-2				115.0	100.1	23.0	74.5	1.2					
MIGRO M-7072		147.8	139.6	24.5	76.6	2.0	B & B 11-7				124.6	98.4	27.1	62.0	0.0					
PRINCETON SX 630			138.3	27.3	77.6	1.2	P-A-G SX 17A				95.5	25.9	65.6	1.7						
SEFD KEM SKX-88A			136.9	25.0	77.1	0.0	VORIS SEEDS V2662				94.1	27.5	54.2	1.0						
FUNK'S G4628		149.3	136.6	28.7	70.8	0.0	PIONEER BRAND 3571	123.2	104.1		90.2	23.3	48.4	0.7						
TROJAN TXS 115A			135.9	25.3	74.0	1.8	SD.STATES S5840				89.8	25.6	47.9	1.1						
P-A-G SX 39		147.1	134.3	27.1	68.2	0.0	ASGROW RX 115	129.9	123.2		88.8	26.6	46.4	1.8						
T-E 6969			134.2	27.5	73.4	2.0	A.C.C.O. UC 8801				87.7	26.1	66.1	0.7						
DEKALB XL78			133.3	26.4	75.0	1.8	GOLDEN HARVEST H2690				68.1	27.7	56.3	0.6						
NORTHROP-KING PX76			132.4	26.1	70.8	1.4	YELLOW AVERAGE	143.2	138.1	125.6	25.8	70.9	1.4							
ASGROW RX 99A			132.1	25.5	83.3	2.2	WHITE													
SO.STATES S5715			129.6	22.2	82.8	3.8	STULL'S WSX2788	147.1	153.9	162.2	27.5	83.3	2.5							
STULL'S SX2700			129.2	25.6	69.3	2.2	ZIMMERMAN Z11W			149.6	32.1	76.6	1.3							
NORTHROP-KING PX74			128.6	24.6	64.6	0.0	GOLDEN HARVEST H2660			147.7	28.7	65.6	1.7							
TROJAN TXS 113		126.4	127.7	25.0	80.7	1.6	P-A-G SX 70W	155.4	148.0		141.0	30.4	75.5	2.9						
MUNCY CHIEF SX878			126.8	25.6	69.8	2.1	PRINCETON SX 910				138.6	28.2	81.3	4.3						
T-E 6968			126.5	26.3	58.9	0.0	MASON 5550				135.8	26.9	64.1	3.3						
GOLDEN HARVEST H2655			126.1	25.6	76.6	0.6	STULL'S WSP2799				133.6	27.4	66.7	3.4						
SO.STATES S5775		140.8	125.6	25.6	68.2	2.9	PIONEER BRAND 511A	135.1	137.9		127.5	30.9	62.0	2.8						
SUPER CROST 5440			124.3	25.2	69.3	0.0	MCNAIR X233				125.9	32.6	76.6	1.3						
S S HYBRIDS JX-86		133.2	123.1	26.5	67.2	0.0	DEKALB XL390W	124.0	119.0		114.6	30.8	59.9	0.6						
GOLDEN HARVEST H2750			122.8	29.6	71.9	2.1	PRINCETON SP 935				97.3	32.2	53.6	2.2						
DEKALB XL68			121.0	27.2	67.2	0.0	P-A-G 644W	109.9	102.8		83.1	33.7	53.6	0.0						
SUPER CROST 7772		140.0	120.3	22.5	62.5	2.5	WHITE AVERAGE	134.3	130.7	129.7	30.1	68.2	2.2							
B & B 10-3			129.6	26.1	67.7	1.3	GRAND AVERAGE	139.8	136.7	126.3	26.4	70.5	1.5							
BO-JAC X1A		142.1	120.1	27.3	65.6	0.7														
COKEP 16			119.5	24.3	77.1	1.3														
MUNCY CHIEF 3X898		123.4	119.1	23.2	67.2	1.5														

TABLE 5.—ANNUAL SUMMARY (1974), NORMAL POPULATION, PRINCETON, KY.

HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS				HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS										
			YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED				YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED							
YELLOW																				
TROJAN TXS 115A			132.2	21.2	83.3	12.5	YELLOW													
GUTWEIN 88A			132.0	23.0	91.1	26.9	ASGROW RX 99A				102.8	23.3	83.9	15.5						
BO-JAC X83	143.4	141.8	131.9	21.4	90.6	11.6	MIGRO M-7072		130.4		102.0	21.9	84.4	12.3						
TROJAN TXS 114			131.4	22.5	90.1	15.7	SEED KEM SKX-66				101.5	20.0	85.9	14.0						
PIONEER BRAND 3369A	131.5	126.5	129.4	21.4	85.9	16.6	STULL'S SX2666				101.3	21.7	70.8	13.1						
SUPER CROST 5440			128.9	20.5	80.2	10.8	S S HYBRIDS JX-86			122.4	100.8	21.2	89.6	16.0						
DEKALB XL80		130.3	124.6	22.7	94.3	18.8	SD.STATES S5715				98.6	20.9	83.9	24.4						
DEKALB XL68			123.1	20.8	85.4	20.1	NORTHROP-KING PX77				112.5	98.2	21.0	81.3	18.9					
PIONEER BRAND 3161			122.9	21.3	85.9	14.8	P-A-G SX 39	127.0			121.0	97.6	22.7	78.6	17.1					
BO-JAC X1A		121.8	122.3	22.6	84.4	17.9	B & B 11-7				113.5	97.0	22.1	85.9	16.1					
ZIMMERMAN Z24Y		136.1	122.0	21.1	91.7	18.3	VORIS SEEDS V2662				107.2	95.9	22.6	80.2	25.4					
STEWART SX 71K			121.8	20.6	84.4	16.1	HULTING X9880				95.6	21.9	83.3	17.5						
MASON 8869			121.1	22.9	90.6	17.2	STEWART SX 68				94.4	19.7	78.6	15.1						
NORTHROP-KING PX76			119.9	19.7	88.5	14.7	STULL'S SX2700				94.4	22.2	79.2	28.0						
T-E 6968			118.4	21.7	83.9	7.5	FUNK'S G4737				93.6	21.6	82.3	20.5						
PRINCETON SX 850	125.8	124.0	118.4	21.2	90.6	18.7	FUNK'S G4628				116.5	92.7	21.7	83.9	15.5					
DEKALB XL72B			117.3	21.1	90.1	8.1	GOLDEN HARVEST H2750				92.5	23.8	79.7	23.2						
MUNCY CHIEF SX878			117.0	23.1	78.1	28.8	COKEP 56				91.7	25.4	84.4	21.5						
PIONEER BRAND 3535			116.6	19.0	87.0	8.4	SEED KEM SKX-88A				88.6	21.9	86.5	12.0						
P-A-G SX 17A			116.5	21.2	81.3	17.0	COKEP 16				88.1	20.8	72.4	26.6						
STULL'S SX2744			114.0	22.2	83.3	21.4	B & B 9-2				111.6	85.9	21.1	72.9	30.2					
PIONEER BRAND 3571	121.6	124.6	113.4	19.6	81.8	18.5	SD.STATES S5840				77.1	21.7	72.9	24.3						

TABLE 6.—ANNUAL SUMMARY (1974), NORMAL POPULATION, HENDERSON, KY.

HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS				HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS				
			YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED				YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	
YELLOW						YELLOW								
S S HYBRIDS JX-7101			171.1	21.1	87.0	0.0	ASGROW RX 99A			140.4	23.6	80.2	1.9	
MCNAIR X190		166.1	169.0	23.1	85.9	2.4	STEWART SX 71K			139.1	21.4	75.0	0.7	
TROJAN TXS 114			167.8	21.8	89.6	0.0	HULTING X980			138.6	22.5	72.9	0.0	
BO-JAC X83	158.5	169.0	161.4	21.3	81.8	0.0	P-A-G SX 39	143.3	149.3	138.5	23.8	75.5	0.0	
FUNK'S G4628		164.0	158.9	23.0	82.3	0.0	SEED KEM SKX-66			138.3	21.1	68.2	0.0	
A.C.C.O. UC 9301			158.4	21.3	84.4	0.0	T-E 6968			137.9	22.7	71.9	0.0	
PIONEER BRAND 3368	149.4	160.0	157.5	21.0	84.9	0.0	B & B 9-2		146.2	137.4	20.9	81.3	0.0	
MUNCY CHIEF SX878			157.4	23.3	82.8	0.0	MIGRO M-7070			135.6	23.6	74.0	0.0	
DEKALB XL78			157.1	21.1	81.8	0.0	HULTING X9880		142.8	132.7	23.3	79.2	2.7	
STULL'S SX2700			156.3	22.0	81.8	0.0	SUPER CROST 5440			132.0	21.5	74.5	0.0	
SUPER CROST 7772		159.8	156.2	21.6	82.8	0.0	COKER 16			128.1	21.9	79.7	0.0	
TROJAN TXS 115A			155.9	20.5	84.4	0.0	MUNCY CHIEF 3X898		134.4	126.4	21.3	69.8	0.0	
MIGRO M-7072		161.6	154.8	21.9	79.6	0.0	PIONEER BRAND 3571	130.5	136.5	124.7	19.6	80.2	0.0	
GOLDEN HARVEST H2655			154.5	20.9	78.7	0.0	SEED KEM SKX-88A			124.6	22.6	80.7	0.0	
PRINCETON SX 630			153.1	22.6	82.8	0.0	MASON 8869			122.9	24.1	80.2	0.7	
NORTHROP-KING PX76			153.0	21.9	88.0	1.1	VORIS SEEDS V2662			121.9	23.0	71.9	0.7	
DEKALB XL72B			152.7	21.5	80.7	0.0	GOLDEN HARVEST H2750			121.6	23.4	74.0	0.7	
PIONEER BRAND 3369A	159.4	166.6	152.4	20.9	78.1	0.0	T-E 6969			121.4	23.5	75.0	0.7	
FUNK'S G5666			152.2	22.8	82.8	0.6	STEWART SX 68			121.2	20.6	68.8	0.0	
B & B 10-3		150.4	152.1	21.4	79.7	0.0	SO.STATES SS715			120.1	21.4	75.0	0.0	
GUTWEIN 88A			152.1	24.4	86.5	0.6	PIONEER BRAND 3535			117.5	18.6	75.0	0.0	
P-A-G SX 98		154.8	151.8	22.7	73.4	0.0	VORIS SEEDS V2632			110.4	21.8	72.9	0.0	
FUNK'S G4770			151.5	23.3	84.9	0.6	SO.STATES SS840			108.5	21.7	72.4	1.4	
DEKALB XL80		162.6	151.3	22.2	76.6	1.2	GOLDEN HARVEST H2690			95.2	23.5	73.4	1.4	
STULL'S SX2666			151.1	21.4	82.8	0.0								
PIONEER BRAND 3161			150.3	21.7	81.3	0.0	YELLOW AVERAGE	147.4	153.9	142.6	22.1	79.1	0.4	
STULL'S SX2744			149.6	22.9	76.0	0.0								
P-A-G SX 17A			149.0	21.7	81.3	0.0	WHITE							
SO.STATES SS775	155.3	148.2	148.2	22.4	83.3	0.0	STULL'S WSP2799			157.5	23.9	79.7	0.0	
S S HYBRIDS JX-86	151.7	146.5	146.5	21.7	78.6	0.0	MCNAIR X233			154.5	24.8	88.5	0.6	
A.C.C.O. UC 8801			145.8	21.8	71.4	0.0	P-A-G SX 70W	148.0	150.2	152.1	26.5	84.4	0.6	
FUNK'S G4646	138.0	146.1	145.0	22.0	79.7	0.0	GOLDEN HARVEST H2660			147.5	24.5	73.4	0.0	
ASGROW RX 115	149.4	154.1	144.6	22.6	83.3	0.0	ZIMMERMAN Z11W		150.8	144.3	25.7	78.6	0.0	
GUTWEIN 86		148.4	144.3	21.7	86.5	0.6	PRINCETON SX 910			143.5	25.3	79.7	0.7	
FUNK'S G4737			144.3	24.5	84.4	0.0	DEKALB XL390W	141.4	139.3	142.3	25.3	81.8	0.0	
PRINCETON SX 850	150.7	153.0	144.1	21.4	83.3	0.0	PIONEER BRAND 511A	141.4	142.6	136.1	26.4	82.3	3.8	
ZIMMERMAN Z24Y		158.4	144.0	21.6	71.4	1.3	PRINCETON SP 935			135.3	24.2	78.1	0.6	
COKER 56			143.7	26.6	80.2	0.0	STULL'S WSX2788	141.2	136.9	132.0	24.5	78.6	0.0	
TROJAN TXS 113		155.1	142.8	21.6	80.2	0.0	P-A-G 644W	137.7	138.9	128.8	24.8	76.6	2.6	
NORTHROP-KING PX74			142.3	20.3	77.1	0.0	MASON 5550			117.0	22.9	80.7	1.8	
BO-JAC X1A		153.3	142.1	22.6	71.4	0.0								
B & B 11-7		153.1	142.1	23.6	78.1	3.4	WHITE AVERAGE	141.9	143.1	140.9	24.9	80.2	0.9	
NORTHROP-KING PX77		147.7	141.4	21.7	81.8	0.0								
DEKALB XL68			141.0	19.9	80.7	3.1	GRAND AVERAGE	145.3	151.8	142.3	22.5	79.2	0.5	

16

TABLE 7.—ANNUAL SUMMARY (1974), NORMAL POPULATION, HARTFORD, KY.

HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS				HYBRID	3-YR YIELD BU/AC	2-YR YIELD BU/AC	1974 RESULTS				
			YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED				YIELD BU/AC	AVG % MOIST	AVG % STAND	TOTAL % LODGED	
YELLOW						YELLOW								
P-A-G SX 98		143.8	151.7	24.8	85.4	1.2	COKER 56			113.5	31.8	83.9	1.3	
PIONEER BRAND 3369A	141.5	148.9	150.7	22.6	88.5	1.0	P-A-G SX 39	115.4	116.7	113.4	24.7	79.7	10.5	
FUNK'S G4628		148.2	150.5	25.4	90.6	5.7	MUNCY CHIEF 3X898		118.3	113.1	22.8	82.8	8.9	
TROJAN TXS 114			144.0	23.5	92.7	1.1	STEWART SX 71K			112.7	23.1	88.5	6.4	
BO-JAC X1A		141.8	142.3	23.3	87.0	0.7	MASON 8869			112.5	24.4	86.5	8.4	
ZIMMERMAN Z24Y		128.5	141.7	22.6	92.2	2.3	NORTHROP-KING PX76			112.3	23.4	84.4	4.9	
MCNAIR X190		145.6	141.5	25.2	90.6	1.7	DEKALB XL80		123.9	111.4	26.2	89.1	2.3	
FUNK'S G4737			140.2	25.7	91.1	0.0	ASGROW RX 115	103.3	113.3	109.1	23.7	87.0	6.3	
T-E 6968			140.1	23.2	91.1	0.0	P-A-G SX 17A			108.4	23.1	85.4	21.5	
S S HYBRIDS JX-86	136.3	138.4	138.2	22.0	86.5	0.0	GOLDEN HARVEST H2690			108.3	24.4	74.0	5.3	
STULL'S SX2744			138.2	25.0	93.8	3.3	S S HYBRIDS JX-7101			107.3	23.1	94.3	1.1	
SUPER CROST 7772	132.4	136.1	136.1	23.7	89.6	1.1	STULL'S SX2700			106.5	23.3	94.8	1.7	
TROJAN TXS 113	130.7	135.8	135.1	25.0	85.4	1.8	COKER 16			106.2	23.5	85.9	0.0	
ASGROW RX 99A			135.1	25.0	88.0	0.6	SO.STATES SS715			106.1	21.4	87.5	1.2	
SO.STATES SS775	127.1	134.9	134.3	25.0	87.0	5.3	VORIS SEEDS V2662			106.0	23.8	84.9	16.7	
HULTING X9880	124.2	133.4	133.4	23.6	90.1	0.0	NORTHROP-KING PX77		121.7	103.9	22.6	89.6	1.3	
PRINCETON SX 630			132.2	22.3	91.7	2.2	SEED KEM SKX-66			102.4	21.1	82.8	2.5	
PIONEER BRAND 3161			132.2	22.3	91.7	1.8	GUTWEIN 86		110.3	101.9	23.1	85.4	14.5	
PIONEER BRAND 3368	129.9	140.3	132.2	23.3	91.7	1.8	SO.STATES SS840			100.6	23.2	76.6	12.5	
MIGRO M-7070			131.0	24.1	80.2	4.6	VORIS SEEDS V2632			100.6	21.8	85.4	3.7	
BO-JAC X83	136.7	136.9	129.6	23.3	90.1	4.5	PIONEER BRAND 3571	115.3	109.6	99.3	19.1	85.4	4.2	
B & B 10-3		119.9	129.5	23.6	88.0	3.1	DEKALB XL68			95.0	23.0	88.0	25.8	
DEKALB XL72B			128.9	24.7	90.6	0.0	SEED KEM SKX-88A			89.8	23.8	83.3	7.4	
PRINCETON SX 850	122.3	130.9	128.0	22.3	92.2	0.0	FUNK'S G5666			88.0	25.0	90.1	9.3	
NORTHROP-KING PX74			127.9	22.2	90.1	0.6								
HULTING X980			127.3	24.8	84.4	6.1	YELLOW AVERAGE	122.2	129.0	121.2	23.6	87.2	4.5	
STULL'S SX2666			126.9	22.7	90.6	7.0								
B & B 11-7		124.6	126.4	24.7	83.3	6.9	WHITE							
B & B 9-2		122.6	126.3	20.9	89.6	2.8	PRINCETON SX 910			141.1	26.6	93.2	2.3	
TROJAN TXS 115A			125.3	23.3	92.2	1.8	ZIMMERMAN Z11W		130.5	121.5	25.8	89.6	11.1	
MIGRO M-7072		142.6	124.7	24.0	83.3	1.2	PIONEER BRAND 511A	122.4	129.1	119.4	27.3	85.4	9.3	
A.C.C.O. UC 9301			123.8	23.1	89.6	0.6	DEKALB XL390W	106.7	120.2	115.9	27.6	91.7	6.4	
SUPER CROST 5440			123.5	23.4	88.5	1.7	GOLDEN HARVEST H2660			112.7	25.9	78.1	6.4	
DEKALB XL78			121.2	25.5	91.1	14.5	MCNAIR X233			111.7	25.8	90.1	9.9	
T-E 6969			118.1	25.1	79.7	5.0	STULL'S WSP2799			110.2	25.5	89.6	9.9	
GOLDEN HARVEST H2655			117.7	22.9	90.1	4.								